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**AMENDMENTS TO THE CLAIMS**

1.(Currently amended) A system for despreading a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal samples, each signal sample having an in-phase portion and a quadrature-phase portion, and wherein the PN code comprises a plurality of chips, the system comprising:

a switch for selecting one of the in-phase portion and the quadrature-phase portion;

a first multiplier coupled to the switch for multiplying the selected portion of one of the plurality of signal samples with one of the plurality of PN code chips to obtain a first product; and

a second multiplier coupled to the switch for multiplying the selected portion of a second of the plurality of signal samples with the one of the plurality of PN code ~~chips~~ chips to obtain a second product, wherein the second of the plurality of signal samples succeeds the one of the plurality of signal samples; and

first adder coupled to the first multiplier and the second multiplier for adding the first product with the second product to obtain a first sum.

2.(Canceled)

3.(Currently amended) The system of claim 1, further comprising:

a third multiplier coupled to the switch for multiplying the selected portion of a third of the plurality of signal samples with a second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal samples succeeds the second of the plurality of signal samples and wherein the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips;

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a fourth multiplier coupled to the switch for multiplying the selected portion of a fourth of the plurality of signal samples with the second of the plurality of PN code chips ~~ships~~ to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples;

a second adder coupled to the third multiplier and the fourth multiplier for adding the third product with the fourth product to obtain a second sum; and

a third adder coupled to the first adder and the second adder for adding the first sum with the second sum.

4.(Canceled)

5.(Currently amended). The system of claim [[4]] 1, further comprising:

a third multiplier coupled to the switch for multiplying the selected portion of a third of the plurality of signal samples with the second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal samples succeeds the second of the plurality of signal samples;

a fourth multiplier coupled to the switch for multiplying the selected portion of a fourth of the plurality of signal samples with a third of the plurality of PN code chips ~~ships~~ to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples and wherein the third of the plurality of PN code chips ~~ships~~ succeeds the second of the plurality of PN code chips;

a second adder coupled to the third multiplier and the fourth multiplier for adding the third product with the fourth product to obtain a second sum; and

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a third adder coupled to the first adder and the second adder for adding the first sum with the second sum.

6.(Currently amended). A method for despreadng a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal samples, each signal sample having an in-phase portion and a quadrature-phase portion, and wherein the PN code comprises a plurality of chips, the method comprising:

selecting one of the in-phase portion and the quadrature-phase portion; and

multiplying the selected portion of one of the plurality of signal samples with one of the plurality of PN code chips to obtain a first product; and

multiplying the selected portion of a second of the plurality of signal samples with the one of the plurality of PN code ~~chips~~ ~~ships~~ to obtain a second product, wherein the second of the plurality of signal samples succeeds the one of the plurality of signal samples; and

adding the first product with the second product to obtain a first sum.

7.(Canceled).

8(Previously amended). The method of claim 6, further comprising:

multiplying the selected portion of a third of the plurality of signal samples with a second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal samples succeeds the second of the plurality of signal samples and wherein the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips;

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multiplying the selected portion of a fourth of the plurality of signal samples with the second of the plurality of PN code chips to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples;

adding the third product with the fourth product to obtain a second sum; and

adding the first sum with the second sum.

9(Canceled).

10(Currently Amended). The method of claim [[9]]6, further comprising:

multiplying the selected portion of a third of the plurality of signal samples with the second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal samples succeeds the second of the plurality of signal samples;

multiplying the selected portion of a fourth of the plurality of signal samples with a third of the plurality of PN code chips to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples and wherein the third of the plurality of PN code chips succeeds the second of the plurality of PN code chips;

adding the third product with the fourth product to obtain a second sum; and

adding the first sum with the second sum.

11-15(Canceled).

16(Currently amended). A computer readable medium having software for despread a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal samples, each signal sample having an in-phase portion and a quadrature-

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phase portion, and wherein the ON code comprises a plurality of chips, the computer readable medium comprising:

means for selecting one of the in-phase portion and the quadrature-phase portion;

means for multiplying the selected portion of one of the plurality of signal samples with one of the plurality of PN code chips to obtain a first product; and

means for multiplying the selected portion of a second of the plurality of signal samples with the one of the plurality of ~~PON~~ PN code chips to obtain a second product, wherein the second of the plurality of signal samples succeeds the one of the plurality of signal samples; and

means for adding the first product with the second product to obtain a first sum.

17(Canceled).

18(Previously presented). The computer readable medium of claim 16, further comprising:

means for multiplying the selected portion of a third of the plurality of signal samples with a second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal sample succeeds the second of the plurality of signal samples and wherein the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips;

means for multiplying the selected portion of a fourth of the plurality of signal samples with the second of the plurality of PN code chips to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples;

means for adding the third product with the fourth product to obtain a second sum; and

means for adding the first sum with the second sum.

19(Canceled).

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20(Currently amended). The computer readable medium of claim [[19]]16, further comprising:

means for multiplying the selected portion of a third of the plurality of signal samples with the second of the plurality of PN code chips to obtain a third product, wherein the third of the plurality of signal samples succeeds the second of the plurality of signal samples;

means for multiplying the selected portion of a fourth of the plurality of signal samples with a third of the plurality of PN code chips to obtain a fourth product, wherein the fourth of the plurality of signal samples succeeds the third of the plurality of signal samples and wherein the third of the plurality of PN code chips succeeds the second of the plurality of PN code chips;

means for adding the third product with the fourth product to obtain a second sum; and

means for adding the first sum with the second sum.

21(Previously presented). A system for despreding a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal sample pairs, each pair comprising an even signal sample and an odd signal sample, each signal sample having an in-phase portion and a quadrature-phase portion, and wherein the PN code comprises a plurality of chips, the system comprising:

a first switch for selecting one of the in-phase portion and the quadrature-phase portion;

a second switch coupled to the first switch for selecting one of the even sample and the odd sample; and

a first multiplier coupled to the second switch for multiplying the selected portion of the selected sample of one of the plurality of signal sample pairs with one of the plurality of PN code chips to obtain a first product.

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22(Original). The system of claim 21, further comprising:

a second multiplier coupled to the second switch for multiplying the selected portion of the selected sample of a second of the plurality of signal sample pairs with a second of the plurality of PN code chips to obtain a second product, wherein the second of the plurality of signal sample pairs succeeds the one of the plurality of signal sample pairs, and the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips; and

an adder coupled to the first multiplier and the second multiplier for adding the first product with the second product to obtain a first sum.

23(Canceled).

24(Canceled).

25(Previously presented). A method for despreading a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal sample pairs, each pair comprising an even signal sample and an odd signal sample, each signal sample having an in-phase portion and a quadrature-phase portion, and wherein the PN code comprises a plurality of chips, the method comprising:

selecting one of the in-phase portion and the quadrature-phase portion;

selecting one of the even sample and the odd sample; and

multiplying the selected portion of the selected sample of one of the plurality of signal sample pairs with one of the plurality of PN code chips to obtain a first product.

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26(Original). The method of claim 25, further comprising:

    multiplying the selected portion of the selected sample of a second of the plurality of signal sample pairs with a second of the plurality of PN code chips to obtain a second product, wherein the second of the plurality of signal sample pairs succeeds the one of the plurality of signal sample pairs, and the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips; and

    adding the first product with the second product to obtain a first sum.

27-32(Canceled).

33(Previously presented). A computer readable medium having software for despreading a spread spectrum signal using a PN code, wherein the spread spectrum signal comprises a plurality of signal sample pairs, each pair comprising an even signal sample and an odd signal sample, each signal sample having an in-phase portion and a quadrature-portion, and wherein the PN code comprises a plurality of chips, the computer readable medium comprising:

    means for selecting one of the in-phase portion and the quadrature-phase portion;

    means for selecting one of the even sample and the odd sample; and

    means for multiplying the selected portion of the selected sample of one of the plurality of signal sample pairs with one of the plurality of PN code chips to obtain a first product.

34(Original). The computer readable medium of claim 33, further comprising:

    means for multiplying the selected portion of the selected sample of a second of the plurality of signal sample pairs with a second of the plurality of PN code chips to obtain a second product, wherein the second of the plurality of signal sample pairs succeeds the one of the



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plurality of signal sample pairs, and the second of the plurality of PN code chips succeeds the one of the plurality of PN code chips; and

means for adding the first product with the second product to obtain a first sum.

35-65(Canceled).